

AMERICAN UNIVERSITY OBSERVATORY

MONTHLY BULLETIN

METEOROLOGICAL SECTION

FRANS BRUIN: DIRECTOR

HALIM HOURANI, OBSERVER

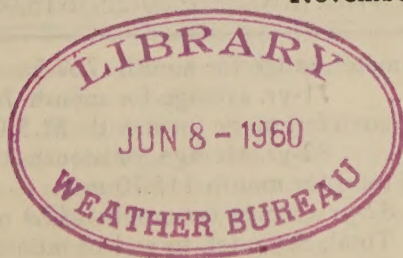
BEIRUT, LEBANON

Latitude: $33^{\circ} 54' 22''$ N.

Longitude: $2^{\text{h}} 21^{\text{m}} 52^{\text{s}}.7$ E.

November 1959

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NOVEMBER 1959

METEOROLOGICAL REGISTER

Date	Barometer reduced to 0°C Sea level and 45° Latitude 700 mm. +...				Thermometer Degrees Centigrade					
	8:30	14:30	20:30	Mean	Max.	Min.	8:30	14:30	20:30	Mean
1	64.8	64.1	64.4	64.4	24.7	19.9	21.5	23.4	22.0	22.3
2	64.7	64.2	64.0	64.3	25.8	21.1	22.0	24.2	22.0	22.7
3	63.3	61.9	61.2	62.1	27.4	21.1	23.2	24.7	22.5	23.5
4	58.0	57.5	59.4	58.3	31.5	17.4	26.2	25.6	21.5	24.4
5	59.4	59.4	60.8	59.9	21.7	16.0	18.2	17.6	16.5	17.4
6	62.1	62.3	62.1	62.2	23.0	15.7	18.3	20.3	19.2	19.3
7	64.6	64.1	64.7	64.5	23.7	16.7	16.5	21.5	19.0	19.0
8	64.0	62.1	61.2	62.4	22.2	19.2	19.2	21.0	21.5	20.6
9	60.9	59.3	58.2	59.5	23.5	20.0	20.7	22.3	20.5	21.2
10	57.8	57.9	58.1	57.9	26.1	17.6	21.6	23.1	20.0	21.6
11	60.0	60.6	62.2	60.9	22.9	17.0	17.8	20.9	19.5	19.4
12	64.2	63.9	64.4	64.2	21.5	15.8	18.9	17.8	16.5	17.7
13	63.6	62.3	62.4	62.8	23.0	15.7	17.8	19.7	17.0	18.2
14	61.7	60.3	58.8	60.3	21.8	17.1	17.1	20.0	17.7	18.3
15	57.9	57.2	58.2	57.8	24.1	14.2	21.5	21.5	17.8	20.3
16	59.7	60.0	61.6	60.4	20.7	17.0	18.4	20.3	17.5	18.7
17	62.8	62.5	63.5	62.9	21.4	16.3	18.2	20.1	18.0	18.8
18	64.3	63.8	64.0	64.0	21.2	16.1	18.0	20.0	17.5	18.5
19	64.7	63.8	64.1	64.2	21.3	15.8	17.9	19.8	19.7	19.1
20	64.5	62.8	62.8	63.4	22.0	15.6	17.7	19.8	17.0	18.2
21	61.5	60.1	60.7	60.8	20.9	16.3	17.7	20.3	17.5	18.5
22	64.1	64.0	65.4	64.5	21.5	16.8	19.5	19.5	17.5	18.5
23	67.5	66.6	66.8	67.0	21.5	15.6	17.8	19.0	17.5	18.1
24	65.7	64.8	66.4	65.6	20.0	11.9	16.8	17.7	15.0	16.5
25	67.2	66.4	67.0	66.9	17.1	12.7	14.2	16.8	16.0	15.7
26	66.5	64.8	64.8	65.4	18.4	14.1	14.8	17.9	15.5	16.1
27	63.9	62.2	62.4	62.8	19.5	14.1	15.5	18.2	16.0	16.6
28	62.3	60.3	59.9	60.8	19.8	10.9	15.8	16.5	15.0	15.8
29	59.7	60.1	63.0	60.9	16.1	7.6	11.0	9.5	13.0	11.2
30	66.8	66.2	66.9	66.6	16.0	12.6	12.7	15.7	13.0	13.8
31										
	62.94	62.18	62.65	62.59	22.10	15.93	18.18	19.82	17.96	18.67

Barometer, range for month 767.5 mm. — 757.2 mm.

„ 71-yr. average for month 762.63mm.

Thermometer, range for month 31.5°C — 7.6°C

„ 82-yr. average for month 19.5°C

Rain total for month 115.70 mm.

„ 82-yr average for month 133.4 mm.

„ Total, Sept. 1st. to end of month 194.20 mm.

„ 82-yr average. Sept. 1st. to end of month 187.27 mm.

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METEOROLOGICAL REGISTER

Date	Pressure of Water Vapor Millibars				Relative Humidity per cent.				sun.	Wind per day	Rain
	8:30	14:30	20:30	Mean	8:30	14:30	20:30	Mean	Hrs.	Kms.	m.m.
1	20.3	19.8	20.2	20.1	78	69	76	74	8.9	87	
2	21.0	23.3	23.7	22.7	78	78	90	82	8.9	45	
3	19.5	19.9	16.8	18.7	69	64	62	65	9.3	61	
4	10.9	21.2	18.0	16.7	32	65	70	56	7.4	126	
5	19.5	17.5	15.5	17.5	94	88	83	88	0.2	103	18.28
6	16.9	16.6	16.7	16.7	80	69	76	75	0.8	48	0.50
7	17.5	17.2	16.2	17.0	94	67	74	78	8.7	51	27.23
8	17.1	17.0	19.0	17.7	77	69	73	73	3.6	40	
9	16.2	20.1	16.8	17.7	67	74	69	70	0.0	56	
10	16.9	21.7	20.3	19.6	66	77	87	77	5.2	39	
11	19.1	16.5	16.4	17.3	94	67	72	78	5.4	43	14.50
12	14.1	14.8	14.1	14.3	65	75	74	71	1.8	74	0.70
13	13.6	14.6	11.7	13.3	67	64	60	64	7.3	42	
14	12.2	13.8	13.2	13.1	62	59	66	62	7.5	80	
15	15.6	14.9	16.7	15.7	60	57	82	66	7.0	259	3.29
16	15.8	17.0	15.1	16.0	75	71	75	74	5.7	90	28.40
17	14.0	17.1	15.7	15.6	67	73	76	72	3.5	16	
18	15.0	15.8	15.1	15.3	73	68	75	72	8.8	34	
19	14.5	13.1	9.8	12.5	71	58	43	57	8.8	80	
20	12.1	13.2	14.0	13.1	60	58	72	63	8.8	45	
21	11.7	12.7	11.5	12.0	58	53	56	56	8.7	42	
22	14.0	13.6	13.1	13.6	66	59	66	64	8.1	58	
23	14.8	14.6	14.8	14.7	73	67	74	71	8.8	87	
24	13.0	12.4	7.6	11.0	68	62	45	58	4.0	266	
25	6.7	7.8	9.1	7.9	41	40	50	44	8.7	336	
26	8.7	10.9	11.7	10.4	53	53	66	57	8.7	77	
27	11.3	9.4	9.1	9.9	64	44	50	53	8.7	95	
28	10.5	13.1	10.9	11.5	59	69	64	64	3.9	106	3.40
29	10.0	10.3	9.0	9.8	75	86	60	74	4.6	317	19.40
30	8.8	8.9	8.3	8.7	60	50	56	55	8.2	414	
31											
	14.38	15.29	14.34	14.67	68.2	65.1	68.1	67.1	6.33	107.23	3.86

Height of Barometer above sea level : 33.7 meters.

Height of Thermometers above ground :

Dry and wet 1.25 m. ; Max. 1.30 m. ; Min. 1.50 m.

Hygrometric data from readings of wet and dry bulb thermometers exposed in a Stevenson screen, reduced according to M.O. 265.

Rim of Rain Gauge : above ground 0.66 m. ; above sea level 30.31 m.

Rainfall is read at 20:30 for the preceding 24 hours.

71 year averages are for period, 1875-1945

NOVEMBER 1959

METEOROLOGICAL REGISTER

Date	Clouds clear—0 Overcast—10				beaufort, scale Direction and force of wind			Sea	Notes
	8:30	14:30	20:30	Mean	8:30	14:30	20:30		
1	0	0	0	0.0	1ne	3ne	1ne	light	D.a.m.p.m
2	0	0	0	0.0	2ne	3ne	1ne	"	D.a.m.p.m
3	0	0	0	0.0	3sw	2ne	1ne	"	D.a.m
4	0	10ci-st	0	3.3	2sw	3sw	2sw	"	Hot wind
5	10st	10st	2cu-st	7.3	3sw	2sw	1sw	"	
6	10st	10st	9cu	9.7	2e	2sw	1sw	light	
7	10st	1cu	5cu-st	5.3	2sw	1sw	2sw	"	Tr.p.m
8	6st	10cu-ni	10st	8.7	1w	2sw	1sw	"	
9	10st	10st	10cu-st	10.0	2sw	2ne	1ne	"	
10	10st	7cu-st	7st	8.0	2sw	3ne	1se	"	
11	8cu-st	5cu	7cu-st	6.7	2sw	3w	2sw	light	
12	8st-ci	10st	5cu-st	7.7	1s	3sw	1sw	"	
13	2cu	9cu-st	5cu-st	5.3	1s	2s	1sw	"	
14	1ci	6ci-st	8ci-st	5.0	2s	2sw	1sw	"	
15	3cu	10cu-st	10cu-ni	7.7	3sw	2sw	2sw	"	
16	7cu-st	8cu-st	3cu-st	6.0	3e	2ne	1ne	light	Sannin Snow Capped
17	10cu-st	7cu-st	2cu-st	6.3	1se	2nw	1nw	"	
18	1cu	6cu-st	0	2.3	2e	2ne	1ne	"	D.a.m
19	3cu	0	0	1.0	1e	2ne	4ne	"	D.a.m
20	0	0	0	0.0	1s	1nw	1n	"	D.a.m
21	6ci	3ci	0	3.0	2sw	1sw	1sw	light	D.a.m
22	3cu-st	2cu-st	4cu	3.0	1se	1sw	1sw	"	
23	1cu-st	7cu-st	4cu-st	4.0	1s	2n	1n	"	D.a.m
24	4cu-st	10st	2cu-st	5.3	1e	5ne	4ne	slight	
25	0	0	0	0.0	2ne	5ne	2ne	light	
26	0	0	0	0.0	1e	2ne	2ne	light	
27	0	0	0	0.0	1e	2ne	1ne	"	
28	10st	2cu	4cu-st	5.3	1e	1ne	1ne	"	
29	9cu-ni	8cu-st	5cu-st	7.3	3ne	1ne	4ne	sligh	
30	0	0	0	0.0	2ne	4ne	1ne	light	Snow on Mountains
31									
mean				4.27					

Abbreviations : G = gale; H = haze; M = mist; T = thunderstorm; D = dew
W = strong wind; Tr = trace of rain

NUMBER OF DAILY WIND OBSERVATIONS

Time	N	NE	E	SE	S	SW	W	NW	Calm	Totals
8:30	0	5	8	2	5	9	1	0	0	30
14:30	1	14	0	0	1	10	1	3	0	30
20:30	2	14	0	1	0	12	0	1	0	30
Total	3	33	8	3	6	31	2	4	0	90

Number of days with rain 9, fog 0, thunderstorms 0, gale. 0

71 yr. av. number of days with rain during month 9.4

Time of reading minus 2 hours equals G.C.T